

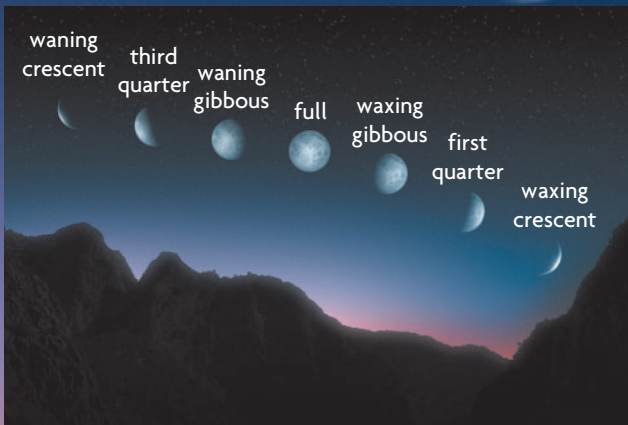


Sinusoidal Functions

▶ LEARNING GOALS

You will be able to develop your algebraic and graphical reasoning skills by

- Describing the characteristics of sinusoidal functions using their graphs and equations
- Graphing data for a situation and modelling the situation using a sinusoidal function
- Solving problems using sinusoidal function models



? The Moon appears in a cycle of eight phases. A different percent of the Moon is illuminated during each phase, except the new phase. No part of the Moon is illuminated during the new phase. This cycle repeats about every 29.5 days.

Suppose that you were asked to draw a graph to represent the percent of the Moon that is illuminated during each phase, for a full year. What would this graph look like?